

**ABSTRACT OF THE INVENTION**

The invention relates to a process for the in-situ preparation of alkylated single-site transition metal catalysts by contacting a precatalyst with an alkylating agent in the polymerization system. The precatalyst, which is produced prior to introducing into the polymerization system, is obtained by contacting a transition metal complex and boron-containing ionizing agent, optionally, with a support.

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